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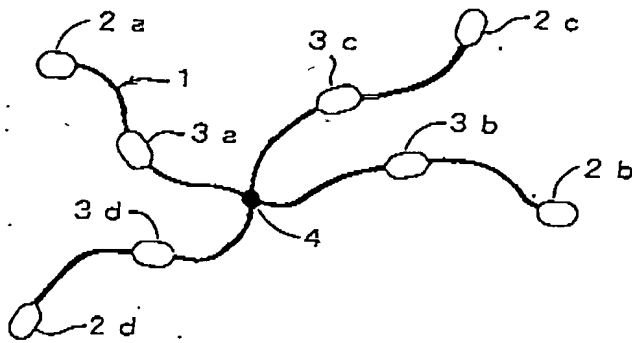


Fig. 1

CONSTRAINED DEGREE OF FREEDOM	X-AXIS DIRECTION TRANSLATION	Y-AXIS DIRECTION TRANSLATION	Z-AXIS DIRECTION TRANSLATION	ROTATION AROUND X-AXIS	ROTATION AROUND Y-AXIS	ROTATION AROUND Z-AXIS
SUPPORTING MEMBER	IMPOSSIBLE	IMPOSSIBLE	IMPOSSIBLE	IMPOSSIBLE	IMPOSSIBLE	IMPOSSIBLE
CONNECTOR	IMPOSSIBLE	IMPOSSIBLE	IMPOSSIBLE	IMPOSSIBLE	IMPOSSIBLE	IMPOSSIBLE
LONG HOLE CLIP	IMPOSSIBLE	IMPOSSIBLE	IMPOSSIBLE	IMPOSSIBLE	IMPOSSIBLE	IMPOSSIBLE
ROUND HOLE CLIP	IMPOSSIBLE	IMPOSSIBLE	IMPOSSIBLE	IMPOSSIBLE	IMPOSSIBLE	IMPOSSIBLE
CORRUGATED LONG HOLE CLIP	IMPOSSIBLE	IMPOSSIBLE	IMPOSSIBLE	POSSIBLE	IMPOSSIBLE	IMPOSSIBLE
CORRUGATED ROUND HOLE CLIP	IMPOSSIBLE	IMPOSSIBLE	IMPOSSIBLE	POSSIBLE	IMPOSSIBLE	POSSIBLE
BRANCH POINT	POSSIBLE	POSSIBLE	POSSIBLE	POSSIBLE	POSSIBLE	POSSIBLE
COMPLETELY CONSTRAINED	POSSIBLE	POSSIBLE	POSSIBLE	POSSIBLE	POSSIBLE	POSSIBLE

FIG. 2

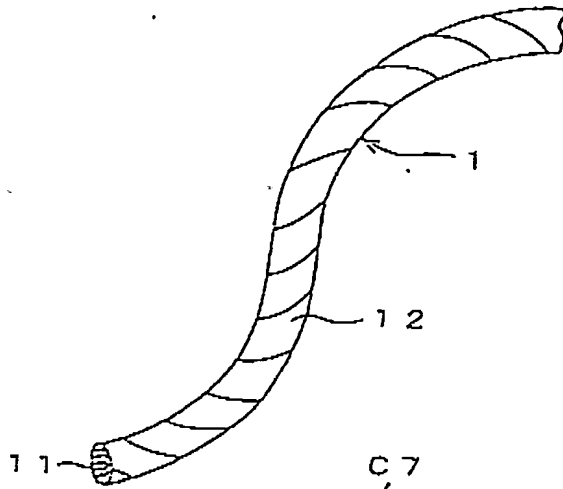


FIG. 3A

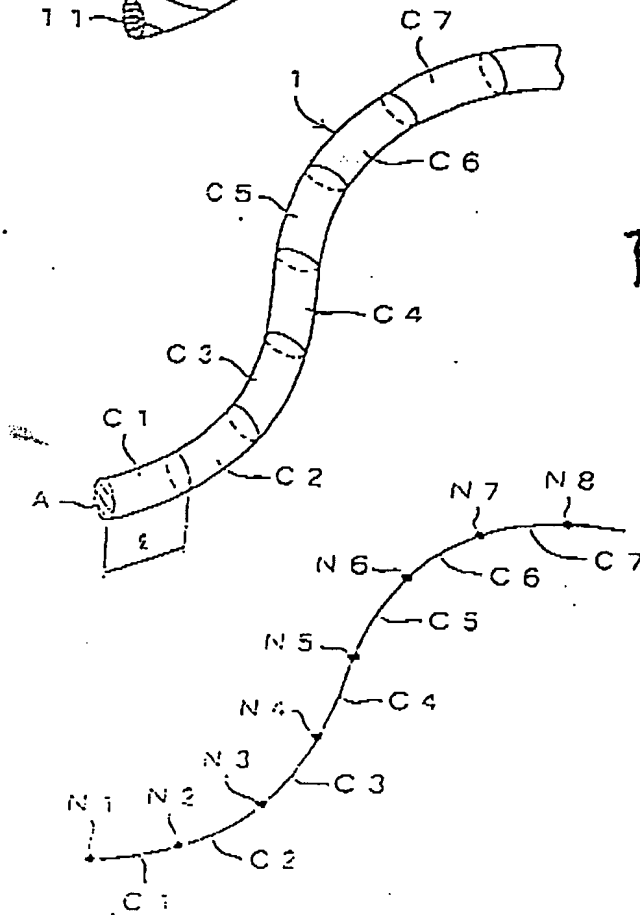


FIG. 3B

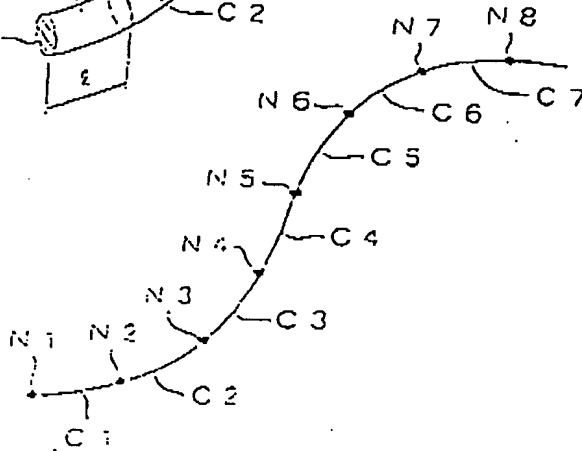


FIG. 3C

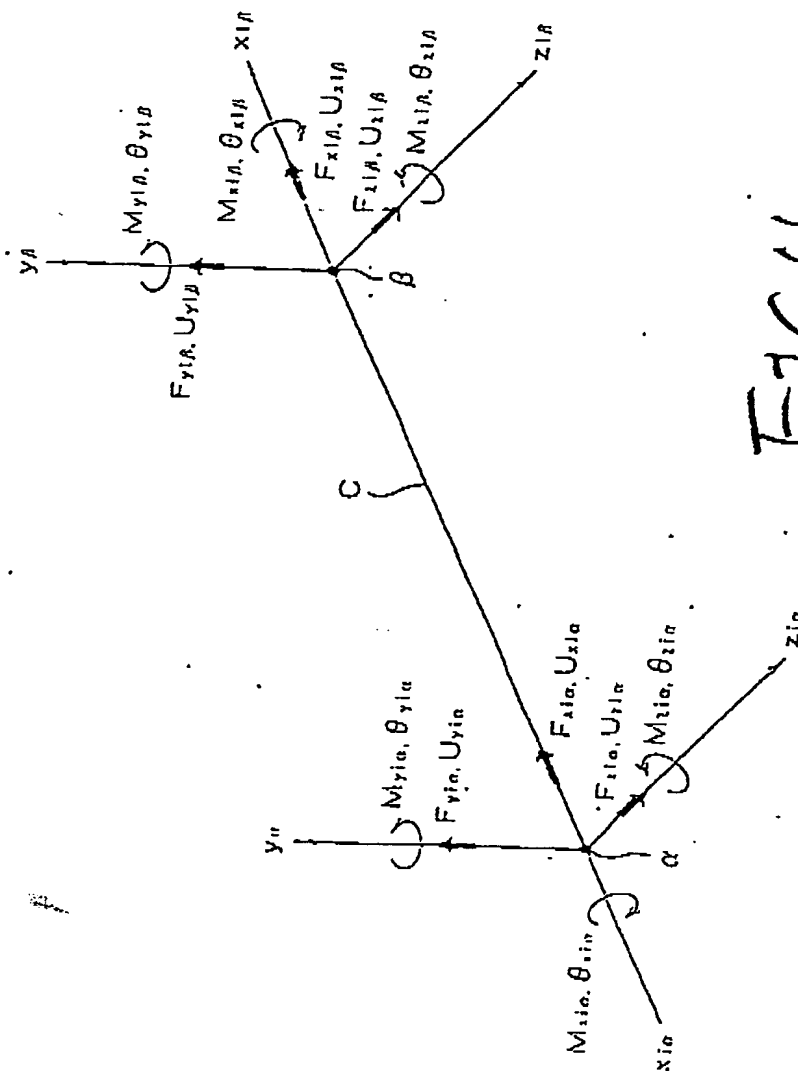


FIG. 5A

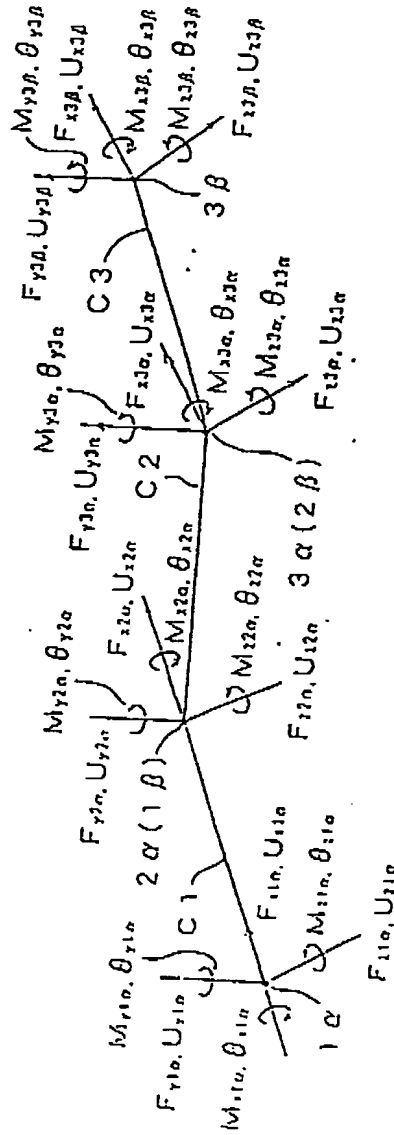
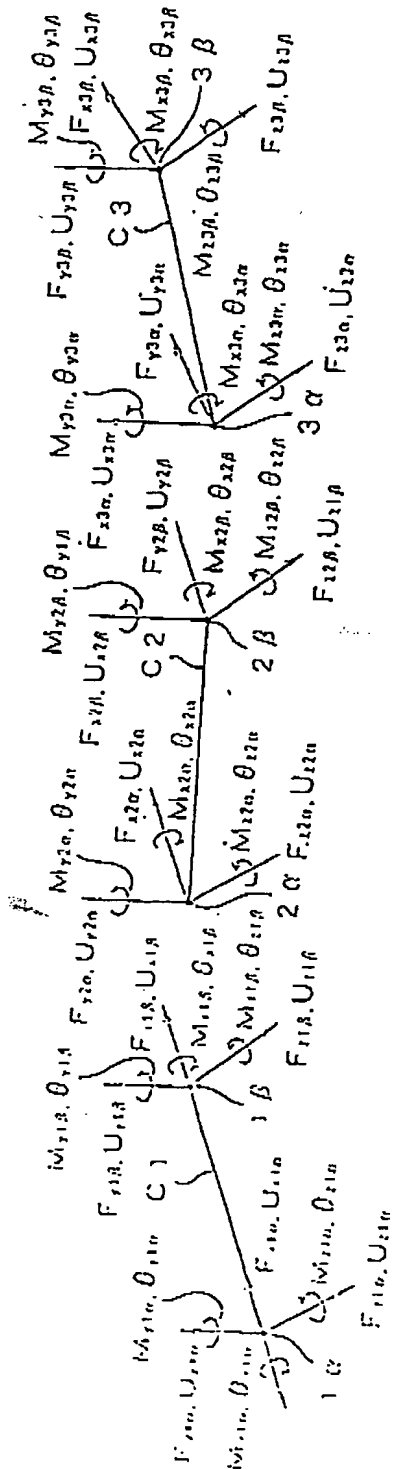


FIG. 5B

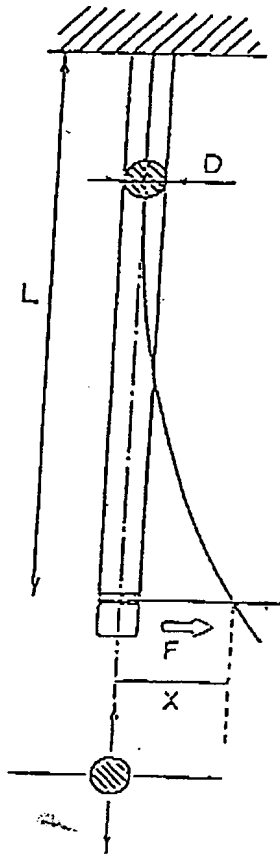


FIG. 6A

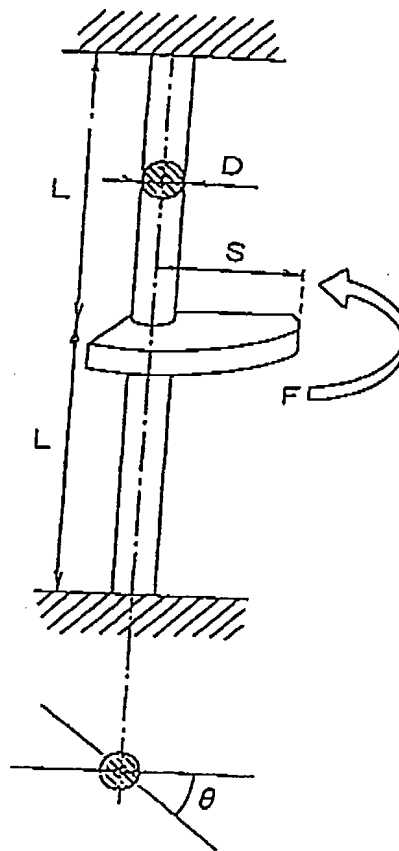


FIG. 6B

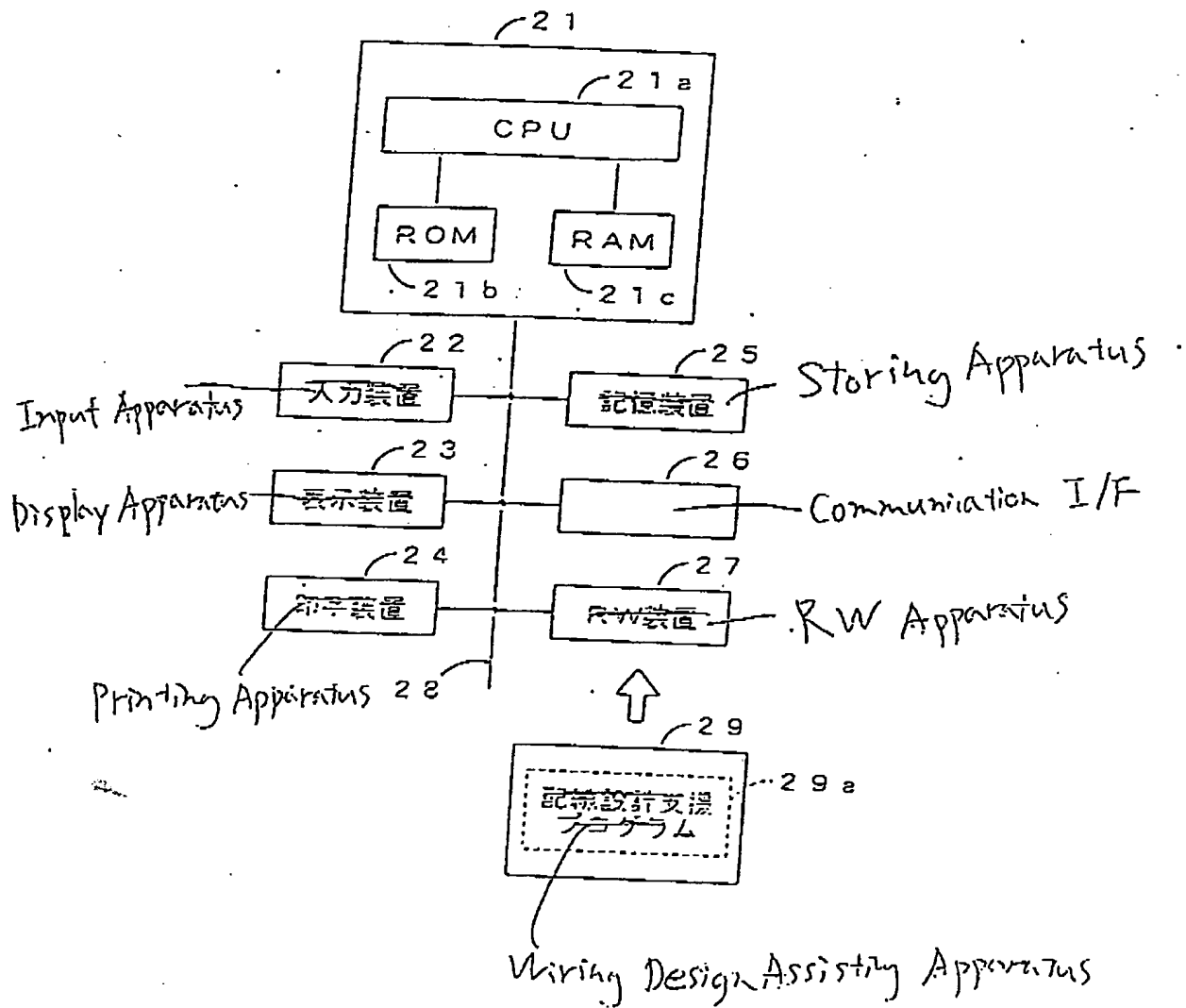


FIG. 7



START,  
 S1 SET CONSTRAINING CONDITION, SHAPE CHARACTERISTIC,  
 MATERIAL CHARACTERISTIC ETC,  
 S2 CALCULATE PREDICTED SHAPE BY UTILIZING FEM,  
 S3 CALCULATE NATURAL FREQUENCY, NATURAL VIBRATION MODE,  
 S4 OUTPUT PREDICTED SHAPE, NATURAL FREQUENCY,  
 NATURAL VIBRATION MODE,  
 S5 IS THERE FINISH TRIGGER?,  
 S6 CHANGE TO RESET CONSTRAINING CONDITION,  
 SHAPE CHARACTERISTIC, MATERIAL CHARACTERISTIC ETC,  
 S7 ERASE CURRENT PREDICTED SHAPE,  
 END

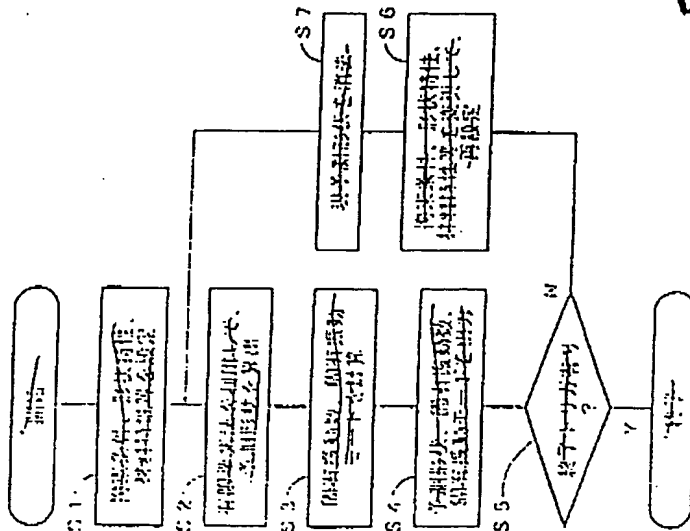


FIG. 8

FIG. 9A

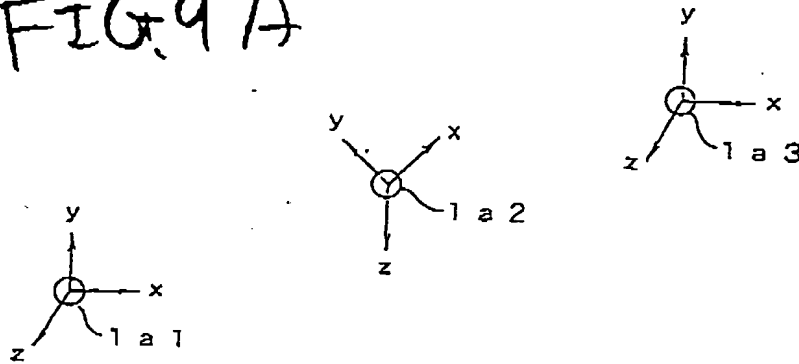


FIG. 9B

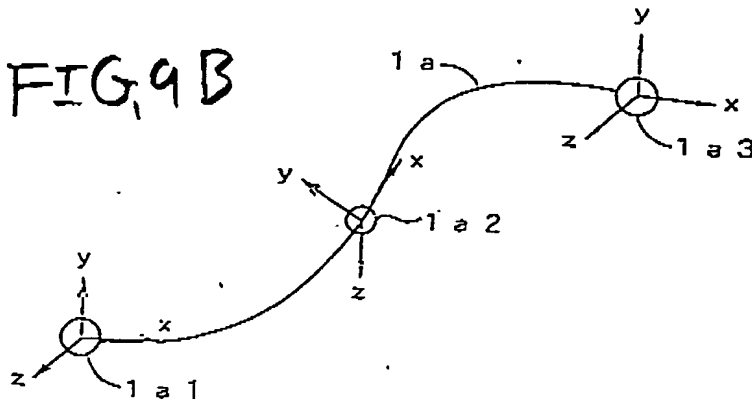


FIG. 9C

